

# **society of neuro oncology 2022**

Society of Neuro Oncology 2022: Advancing Brain Tumor Research and Care

**society of neuro oncology 2022** marked a significant milestone in the world of neuro-oncology, bringing together experts, researchers, clinicians, and advocates dedicated to improving the understanding and treatment of brain tumors. This annual gathering is more than just a conference; it represents a vibrant hub for sharing cutting-edge research, innovative therapies, and collaborative strategies that push the boundaries of what's possible in brain cancer care. The 2022 event continued this tradition, showcasing breakthroughs and fostering a community passionate about transforming outcomes for patients worldwide.

## **What Makes the Society of Neuro Oncology 2022 Stand Out?**

Every year, the Society of Neuro Oncology (SNO) conference serves as a beacon for progress in the field. In 2022, the event stood out for several reasons that resonated deeply with attendees from around the globe. The convergence of multidisciplinary expertise, from neurosurgery and radiation oncology to molecular biology and patient advocacy, created an unparalleled environment for learning and innovation.

One of the defining features of the 2022 meeting was its emphasis on personalized medicine. Attendees witnessed how advancements in genomic profiling and molecular diagnostics are reshaping treatment paradigms for brain tumors, enabling therapies tailored to individual tumor characteristics rather than a one-size-fits-all approach.

## **Highlighting Innovative Research and Clinical Trials**

A core component of the Society of Neuro Oncology 2022 was the robust presentation of novel research findings and clinical trial updates. Groundbreaking studies on glioblastoma, meningiomas, and pediatric brain tumors were at the forefront, offering hope for more effective and less toxic treatments.

Researchers presented data on immunotherapy approaches, including checkpoint inhibitors and vaccine development, highlighting the potential to harness the body's immune system to fight brain cancer. Moreover, advances in targeted therapies, such as inhibitors that block specific molecular pathways involved in tumor growth, were explored in depth.

## **The Role of Multidisciplinary Collaboration at the Society of Neuro Oncology 2022**

Brain tumors are complex diseases that require a multifaceted approach to treatment and research.

The Society of Neuro Oncology 2022 underscored the importance of collaboration among various specialties. Neurosurgeons, neuro-radiologists, medical oncologists, neuropathologists, and researchers worked side by side, sharing insights that could accelerate progress.

This interdisciplinary dialogue is crucial because it helps bridge gaps between laboratory discoveries and clinical applications. For example, neuropathologists' advances in tumor classification informed by molecular markers are now directly influencing surgical strategies and chemotherapy decisions.

## **Engaging Patient Advocates and Survivors**

An inspiring aspect of the 2022 conference was the active inclusion of patient advocates and survivors in discussions. Their voices added a vital perspective on quality of life, treatment side effects, and the psychosocial challenges associated with brain tumors.

Sessions dedicated to patient-centered care emphasized the need for holistic approaches that address not only the physical but also the emotional and cognitive impacts of brain cancer. This shift towards integrating patient experience into research priorities and clinical care models is transforming how neuro-oncology evolves.

## **Educational Opportunities and Workshops**

The Society of Neuro Oncology 2022 offered a rich array of educational sessions designed to enhance the knowledge and skills of attendees at all career stages. From early-career investigators to seasoned clinicians, participants benefited from workshops, panel discussions, and interactive sessions.

Topics ranged from advanced neuroimaging techniques and surgical innovations to ethical considerations in clinical trials. Notably, sessions on emerging technologies, such as artificial intelligence and machine learning, explored how these tools might improve diagnosis, treatment planning, and outcome prediction in neuro-oncology.

## **Networking and Building Global Connections**

Beyond the formal sessions, the Society of Neuro Oncology 2022 facilitated meaningful networking opportunities. Participants connected through virtual and in-person meetups, fostering collaborations that extend beyond the conference timeline.

These connections are vital for accelerating research and sharing best practices worldwide, especially as brain tumor care varies significantly by region due to differences in resources and infrastructure. The global neuro-oncology community's commitment to knowledge exchange is one of the conference's most powerful legacies.

# Emerging Trends and Future Directions Highlighted in 2022

The discussions and presentations at the Society of Neuro Oncology 2022 illuminated several emerging trends shaping the future of brain tumor research and treatment.

- **Liquid Biopsies:** Non-invasive methods to detect tumor DNA in blood or cerebrospinal fluid promise earlier diagnosis and real-time monitoring of treatment response.
- **Precision Oncology:** Increasing use of molecular profiling to guide targeted therapies tailored to the unique genetic makeup of each tumor.
- **Immunotherapy Advances:** New strategies to enhance immune system recognition and attack of brain tumor cells.
- **Quality of Life Focus:** Enhanced efforts to minimize cognitive decline and improve supportive care.
- **Artificial Intelligence Integration:** AI-driven image analysis and predictive modeling to refine diagnosis and treatment plans.

These trends not only reflect the state of current research but also point toward a future where brain tumor patients receive more effective, personalized, and compassionate care.

## Tips for Professionals Engaging with Society of Neuro Oncology Events

For clinicians and researchers eager to maximize their experience at future Society of Neuro Oncology conferences, the 2022 event offers some useful lessons:

1. **Prepare Ahead:** Review the agenda and abstracts in advance to prioritize sessions aligned with your interests.
2. **Engage Actively:** Participate in Q&A sessions and workshops to deepen your understanding and connect with speakers.
3. **Network Strategically:** Take advantage of social events and online platforms to build relationships that can foster collaboration.
4. **Stay Updated Post-Conference:** Follow up on new research and clinical trial opportunities presented at the event.
5. **Involve Patients:** Consider integrating patient perspectives into your work to ensure research

and care remain patient-centered.

## **The Broader Impact of Society of Neuro Oncology 2022**

The ripple effects of the Society of Neuro Oncology 2022 extend far beyond the conference halls. By disseminating the latest scientific discoveries and clinical advancements, the event contributes to improved standards of care that ultimately benefit patients globally.

Moreover, the collaborative spirit fostered at the conference helps accelerate the translation of research findings into real-world treatments. This is especially critical in a field like neuro-oncology, where the prognosis for many brain tumor types remains challenging.

In essence, the Society of Neuro Oncology 2022 served as a powerful reminder of the collective commitment within the medical and scientific community to conquer brain cancer through innovation, compassion, and partnership.

## **Frequently Asked Questions**

### **What were the main themes discussed at the Society of Neuro-Oncology (SNO) 2022 annual meeting?**

The main themes at SNO 2022 included advancements in brain tumor biology, novel therapeutic approaches, immunotherapy in neuro-oncology, precision medicine, and improving patient quality of life.

### **Which new treatments for glioblastoma were highlighted at SNO 2022?**

SNO 2022 highlighted several new treatments for glioblastoma, including innovative immunotherapies, targeted molecular therapies, and novel drug delivery systems designed to cross the blood-brain barrier more effectively.

### **How did SNO 2022 address the role of immunotherapy in neuro-oncology?**

SNO 2022 featured extensive discussions on immunotherapy, showcasing clinical trial results of checkpoint inhibitors, CAR T-cell therapies, and vaccine-based approaches aimed at enhancing the immune response against brain tumors.

### **Were there any significant clinical trial results presented at**

## **SNO 2022?**

Yes, several significant clinical trial results were presented, including trials on novel agents for high-grade gliomas, new combinations of chemotherapy and immunotherapy, and trials focusing on pediatric brain tumors.

## **What advancements in diagnostic techniques were presented at the Society of Neuro-Oncology 2022?**

Advancements included improved imaging modalities, liquid biopsy methods for detecting circulating tumor DNA, and molecular profiling techniques that help in better tumor classification and personalized treatment planning.

## **Did SNO 2022 discuss any strategies for improving patient quality of life?**

Yes, SNO 2022 emphasized the importance of supportive care, neurocognitive function preservation, symptom management, and psychosocial support to improve the overall quality of life for patients with brain tumors.

## **Who were some of the key speakers or experts featured at the Society of Neuro-Oncology 2022 conference?**

Key speakers included leading neuro-oncologists, neurosurgeons, radiation oncologists, and researchers such as Dr. Susan Chang, Dr. Michael Weller, and Dr. Gelareh Zadeh, who shared insights on the latest research and clinical practices.

## **How did SNO 2022 incorporate interdisciplinary collaboration in neuro-oncology?**

SNO 2022 promoted interdisciplinary collaboration by bringing together specialists from neurology, oncology, neurosurgery, radiology, pathology, and basic science to foster comprehensive approaches to brain tumor treatment and research.

## **What future directions in neuro-oncology research were identified at the 2022 Society of Neuro-Oncology meeting?**

Future directions highlighted included targeting tumor microenvironment, leveraging artificial intelligence in diagnostics, developing personalized vaccines, enhancing drug delivery methods, and focusing on pediatric neuro-oncology advancements.

## **Additional Resources**

Society of Neuro Oncology 2022: Advancements, Challenges, and Future Directions in Neuro-Oncology

**society of neuro oncology 2022** marked a pivotal moment in the field of neuro-oncology, bringing together leading clinicians, researchers, and industry experts to discuss the latest advancements, ongoing challenges, and emerging trends in the diagnosis and treatment of central nervous system tumors. The annual conference served as a comprehensive platform to exchange knowledge, highlight cutting-edge research, and foster collaborations aimed at improving patient outcomes. This article provides an in-depth analysis of the key themes and developments presented during the Society of Neuro Oncology (SNO) 2022 meeting, reflecting on its impact on the broader neuro-oncology community.

## Overview of Society of Neuro Oncology 2022

The Society of Neuro Oncology 2022 convened a diverse group of experts in neuro-oncology, including neuro-oncologists, neurosurgeons, radiation oncologists, neuropathologists, and basic researchers. The event took place in a hybrid format, combining both in-person sessions and virtual participation to accommodate global attendees amid ongoing pandemic considerations. This approach facilitated unprecedented international engagement and knowledge sharing.

The conference agenda was structured around plenary sessions, poster presentations, workshops, and roundtable discussions. Topics ranged from molecular tumor profiling and innovative therapeutic strategies to quality-of-life assessments and health disparities in brain tumor care. The interdisciplinary focus of the meeting underscored the complex and multifaceted nature of neuro-oncology as a specialty.

## Key Scientific Highlights

One of the defining features of the Society of Neuro Oncology 2022 was the emphasis on precision medicine and molecular diagnostics. Advances in genomic and epigenomic profiling have reshaped the classification of brain tumors, enabling more accurate prognostication and personalized treatment approaches. Presenters showcased novel biomarkers and molecular signatures that enhance tumor characterization beyond traditional histopathology.

## Emerging Biomarkers and Molecular Insights

Several studies introduced at SNO 2022 highlighted the prognostic and predictive value of specific genetic alterations such as IDH mutations, MGMT promoter methylation, and TERT promoter mutations in gliomas. Researchers also explored the role of liquid biopsies and circulating tumor DNA (ctDNA) as minimally invasive tools for monitoring disease progression and treatment response.

Additionally, the integration of multi-omics data—combining genomics, transcriptomics, and proteomics—was a recurring theme, demonstrating how comprehensive molecular profiling can inform therapeutic decision-making. This integrated approach aims to identify novel drug targets and overcome resistance mechanisms that complicate standard therapies.

## **Innovations in Treatment Modalities**

The Society of Neuro Oncology 2022 spotlighted several promising treatment advances, including immunotherapy, targeted therapies, and novel delivery systems. Immunotherapeutic strategies such as immune checkpoint inhibitors and CAR T-cell therapies were discussed extensively, although their efficacy in brain tumors remains a subject of ongoing investigation.

Targeted therapies tailored to specific molecular alterations gained momentum, with clinical trial data presented on agents like BRAF inhibitors in brain metastases and FGFR inhibitors in gliomas. The conference also highlighted innovations in drug delivery methods, such as convection-enhanced delivery and blood-brain barrier disruption techniques, designed to enhance the penetration of therapeutic agents into the central nervous system.

## **Clinical Trials and Translational Research**

A critical component of the Society of Neuro Oncology 2022 was the presentation of results from ongoing and completed clinical trials. These studies provide the evidence base necessary to translate laboratory discoveries into clinical practice. The conference featured updates on phase II and III trials testing novel agents and combination regimens.

## **Notable Clinical Trial Outcomes**

Among the most anticipated presentations were the outcomes from trials investigating tumor-treating fields (TTFields), a non-invasive modality shown to improve survival in glioblastoma patients when combined with standard chemoradiation. Researchers also discussed trials exploring checkpoint inhibitors in high-grade gliomas, with mixed results indicating the need for patient selection biomarkers and combination strategies.

Moreover, early-phase trials evaluating novel small molecules and biologics targeting the tumor microenvironment and angiogenesis were reviewed. These studies underscore the complexity of brain tumors and the necessity of multifaceted therapeutic approaches.

## **Challenges in Translational Neuro-Oncology**

Despite advances, translational research in neuro-oncology faces significant hurdles. The blood-brain barrier remains a formidable obstacle to effective drug delivery. Additionally, the tumor heterogeneity and adaptive resistance mechanisms require innovative trial designs and biomarker-driven patient stratification.

The Society of Neuro Oncology 2022 dedicated sessions to discussing strategies for overcoming these challenges, including the use of advanced imaging techniques, liquid biopsy integration, and adaptive clinical trial frameworks.

# **Addressing Quality of Life and Health Disparities**

Beyond scientific and clinical innovations, the Society of Neuro Oncology 2022 emphasized the importance of patient-centered care. Presentations addressed neurocognitive outcomes, symptom management, and supportive care interventions aimed at improving quality of life for brain tumor patients.

## **Neurocognitive and Psychosocial Considerations**

Brain tumor treatments often come with significant neurocognitive side effects. Researchers presented data on assessment tools and rehabilitation programs designed to mitigate cognitive decline and enhance functional outcomes. Psychosocial support mechanisms were also highlighted as integral to holistic neuro-oncology care.

## **Health Disparities and Access to Care**

The conference shed light on disparities in neuro-oncology care related to socioeconomic status, race, and geographic location. Discussions focused on strategies to improve equitable access to advanced diagnostics and therapies, including telemedicine expansion and community outreach initiatives.

## **Educational and Collaborative Initiatives**

The Society of Neuro Oncology 2022 reinforced its commitment to education and collaboration across disciplines and borders. Several workshops focused on training early-career professionals in cutting-edge techniques and research methodologies.

## **Interdisciplinary Collaboration**

Recognizing the interdisciplinary nature of neuro-oncology, the conference encouraged collaboration between neurosurgeons, medical oncologists, radiotherapists, and basic scientists. Joint sessions facilitated cross-pollination of ideas and fostered partnerships that are critical for advancing the field.

## **Future Directions and Emerging Trends**

Looking ahead, the Society of Neuro Oncology 2022 highlighted the potential of artificial intelligence and machine learning to revolutionize tumor diagnosis, treatment planning, and outcome prediction. Integration of digital health tools and real-world data analytics was also identified as a promising avenue to enhance personalized care.



Efforts to develop novel immunotherapy combinations, optimize drug delivery systems, and refine molecular classifications are expected to remain at the forefront of neuro-oncology research. Additionally, ongoing focus on patient-reported outcomes and survivorship care will continue to shape comprehensive treatment paradigms.

The Society of Neuro Oncology 2022 underscored the dynamic and rapidly evolving landscape of neuro-oncology. The event not only showcased significant scientific progress but also fostered a collaborative spirit essential for overcoming the formidable challenges posed by central nervous system tumors. As research continues to advance, the insights and connections forged during this meeting will play a crucial role in translating discoveries into meaningful clinical benefits for patients worldwide.

## **[Society Of Neuro Oncology 2022](#)**

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**society of neuro oncology 2022: Neuropsychological and Psychosocial Foundations of Neuro-Oncology** Herbert B. Newton, Ashlee R. Loughan, 2024-08-05 Neuropsychological & Psychosocial Foundations of Neuro-Oncology provides an in-depth review of common cognitive, psychological, and social manifestations that occur in patients with brain cancer and other neuro-oncological issues, Chapters discuss primary CNS tumors, brain metastases, leptomeningeal disease, paraneoplastic disorders, and many other topics. Effects of CNS and systemic cancer treatment (i.e., radiotherapy, chemotherapy, immunotherapy) are also examined, as well as current practices for rehabilitation and targets for essential future interventions in vulnerable populations. This book is fully illustrated with pathology photomicrographs, CT and MRI images, tables, and molecular pathway diagrams. Bringing neuropsychological and behavioral health trial knowledge from the bench to the bedside, this volume is an essential reference for practicing neuro-oncologists, neuropsychologists, nurses, and others working in the field of neuro-oncology. - Discusses the neurocognitive implications of brain and systemic cancer treatments - Examines the foundations of neuropsychological testing and daily life implications, including caregiver support - Covers the psychosocial implications of brain cancer, psychotherapeutic interventions, and cognitive rehabilitation

**society of neuro oncology 2022: Primary Brain Tumors in Adults: Advances in Mechanistic Understanding, Evaluation, and Management** , 2025-07-01 Primary Brain Tumors in Adults: Advances in Mechanistic Understanding, Evaluation, and Management, Volume 166 in the Advances in Cancer Research series, highlights new advances in the field, with this new volume presenting interesting chapters on a variety of timely topics, including Molecular drivers in primary brain tumor formation, Novel CSF pathways in the glioma (DIPG), Volumetric analysis in low grade gliomas and other advanced MR imaging techniques, Liquid biopsy in the diagnosis of primary brain tumors, Intraoperative imaging techniques to improve tumor detection, and much more. Additional chapters focus on Supramaximal resection in primary brain tumors, Radiotherapeutic approaches: IMRT, re-irradiation, Molecularly driven therapies in the treatment of primary brain tumors, and Changes in the immune microenvironment and immunotherapeutic strategies in the treatment of gliomas. - Provides the latest information on Primary Brain Tumors in Adults - Offers outstanding

and original reviews on a range of cancer research topics - Serves as an indispensable reference for researchers and students alike

**society of neuro oncology 2022: Goldman-Cecil Medicine E-Book** Lee Goldman, Kathleen A. Cooney, 2023-07-15 For more than 95 years, Goldman-Cecil Medicine has been the authoritative source for internal medicine and the care of adult patients. Every chapter is written by acclaimed experts who, with the oversight of our editors, provide definitive, unbiased advice on the diagnosis and treatment of thousands of common and uncommon conditions, always guided by an understanding of the epidemiology and pathobiology, as well as the latest medical literature. But Goldman-Cecil Medicine is not just a textbook. It is designed to optimize electronic searches that will rapidly take you to exactly the information you are seeking. Throughout the lifetime of each edition, periodic updates continually include the newest information from a wide range of journals. Furthermore, Goldman-Cecil Medicine is available for all users of ClinicalKey, Elsevier's full library of subspecialty textbooks that can be accessed by readers who may want even more in-depth information. - More than 400 chapters authored by a veritable Who's Who of modern medicine - A practical, templated organization with an emphasis on up-to-date, evidence-based references - New chapters on Population Health, Effects of Climate Change on Health, Bradycardias, Transgender Medicine, Whipple Disease, COVID-19 Virology and Pathobiology, COVID-19 Epidemiology/Clinical Manifestations/Diagnosis/Community Prevention, COVID-19 Treatment and Vaccination, Polyomaviruses, and more - Thousands of algorithms, figures, and tables that make its information readily accessible - Over 100 supplementary videos, heart sounds, and key references - Available in print and on a variety of electronic devices - Continuously updated by Lee Goldman, MD - An eBook version is included with purchase. The eBook allows you to access all of the text, figures, and references, with the ability to search, customize your content, make notes and highlights, and have content read aloud.

**society of neuro oncology 2022: Global Neurosurgery, An Issue of Neurosurgery Clinics of North America, E-Book** Michael M. Haglund, Robert J. Dempsey, 2024-09-10 In this issue of Neurosurgery Clinics, guest editors Drs. Robert J. Dempsey and Michael M. Haglund bring their considerable expertise to the topic of Global Neurosurgery. Top experts in the field cover the delivery of neurosurgical care in a variety of settings, discussing topics such as worldwide need and disparities; medical curriculum development for a worldwide curriculum for neurosurgery; continuing medical education for graduates; key partners in global health; bioengineering in global health; and much more. - Contains 16 relevant, practice-oriented topics including overview on global neurosurgery; global neurosurgery and international policy; establishing microsurgical skills laboratories in low- and middle-income countries and partnering through WIFI for remote teaching; establishing the trainee in their first program; traumatic brain injury and the early development of a neurosurgical program; and more. - Provides in-depth clinical reviews on global neurosurgery, offering actionable insights for clinical practice. - Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant, topic-based reviews.

**society of neuro oncology 2022: Cerebral Metastases: Translational Advances, Evaluation and Management**, 2025-06-20 Cerebral Metastases: Translational Advances, Evaluation and Management, Volume 165 in this ongoing series, highlights new advances in the field, with this new volume covering many interesting topics, including Molecular Drivers in CNS metastasis, Role of the tumor microenvironment in CNS metastatic disease, Advanced Imaging to improve early diagnosis and evaluate treatment response, Liquid biopsy in early detection of CNS metastasis, Precision medicine approaches to CNS metastatic disease, IMRT/conventional RT, Single and hypofractionated SRS, Brachytherapy for recurrent metastases, LITT for treatment of active brain metastasis and radiation necrosis, and much more. Other topics covered include Minimally-invasive surgical approaches in the management of brain metastases. - Provides the latest information on cancer research and metastasis - Offers outstanding and original reviews on a range of cancer research topics - Serves as an indispensable reference for researchers and students alike

### **society of neuro oncology 2022: Neurosurgery's Frontline Role in Gliomas Treatment**

Daniele Armocida, Diego Garbossa, Maurizio Salvati, 2025-05-31 Gliomas are an incurable disease of the central nervous system. In recent years, important milestones have been achieved in understanding the pathogenetic and molecular mechanisms of gliomas, with numerous oncological, molecular and neuroradiological studies. The first important therapeutic step, however, remains surgery. The neurosurgeon is almost always the first specialist who poses the diagnostic suspicion and takes charge of the patient, and a radical and safe surgical intervention greatly influences the patient's prognosis. The different surgical approach strategies, new technologies and trends are summarised in this volume. Edited by a leading expert in the field and authored by a team of recognised specialists, this book addresses all the most important updates on the understanding of gliomas, analyses them from all perspectives and studies their neurosurgical aspect. It will be a valuable resource for neurosurgeons, medical oncologists, neuro-oncologists and neurologists.

**society of neuro oncology 2022: Application of Emerging Technologies in the Diagnosis and Treatment of Patients with Brain Tumors: New Frontiers in Imaging for Neuro-oncology** Domenico Aquino, Valentina Pinzi, Camilla Russo, Vincenzo Di Nunno, Elena De Martin, 2025-06-18 Continued advancements in medical imaging systems have significantly enhanced our ability to timely and accurately visualize body tissues and disease-related processes. Such advancements are gradually responding to a pressing need for personalized medicine, representing an always more pervasive urgency in every medical field; this is all the more true with regard to neuro-oncology, and physicians have now to deal with it. This shift toward precision medicine, defined as the right treatment for the right patient at the right time, has called for innovative approaches to provide aggregation of different techniques, different disciplines, and different professionals, in order to ensure to patients with brain tumors the highest efficacy in both diagnostic and therapeutic capabilities. In this interdisciplinary or cross-disciplinary vision of neuro-oncology, brain imaging represents a compelling source of crucial information used by clinicians and surgeons, and the flourishing of scientific literature based on image post-processing analysis, artificial intelligence, radiomics, and other fast-growing automations in data analysis has been revolutionizing the way of both understanding and applying neuroimaging for treatments. This Research Topic aims to deepen the readers' understanding of novel medical imaging techniques and image-guided procedures for brain tumors' diagnosis and treatment, or rather integrating these advancements into clinical practice. In this light, it will provide new insights on the latest strides in medical imaging for brain tumors' diagnosis and therapeutic management. This Research Topic will also focus on the importance of the combination of different techniques from various clinical domains, to fulfill their potential in a pluralist approach that might lead to a more personalized therapy in patients with brain neoplasms; in that regard, of special interest will be the fast-evolving field of artificial intelligence in neuro-oncology and neuro-oncological imaging.

**society of neuro oncology 2022: Ethical Challenges for the Future of Neurosurgery** Ahmed Ammar, Mark Bernstein, 2024-11-15 This work informs about major changes in health care systems at present and to come, and the ethical consequences. Rapid technological developments, especially in the fields of communication and virtual communication, artificial intelligence, implanted brain chips, augmented reality, in situ real-time pathological diagnosis of lesions during surgery, and others are challenging aspects of neurosciences in particular and medicine in general. Most of these modern technologies are available nowadays, just waiting to be tried and used. Ethicists (and neurosurgeons!) are facing unprecedented challenges as they have to be one step ahead in reading the future and predict what is coming and how the implementation of these technologies may affect patients' safety, dignity, and autonomy. This book supports neurosurgeons and medical care providers to understand and implement the newly developed technologies, which will help advance medical care. Each chapter has been written by a world leader. Some of these authors are making the future and producing new advanced technologies. The authors discuss all the new innovations and the editors asked the authors to point out the ethical dilemmas if such technologies are implemented. The ethical questions are highlighted and suggestions are provided for solving such

ethical problems to guarantee patient safety and dignity. According to the definition and principles of the Values-Based Medicine concept, the patient is the center of care, is the sole center of care. No compromising of patients' well-being and safety can be allowed!

**society of neuro oncology 2022: *The Involvement of Systemic Homeostasis in Tumour Biology***  
Wei-Lin Jin, Hongying Pan, Qian Wang, Gerhard Schmalz, 2023-10-13 Systemic homeostatic mechanisms include several aspects, such as metabolic, neuroendocrine, immune, and physiological homeostasis. Irreversible damage or reversible imbalance of such homeostatic processes may initiate cancers by altering the regulation of the molecular machinery. Systemic homeostasis-related genes have been found to be intimately involved in oncological processes and in some instances have shown prognostic value. Thus, future gene targeting approaches for cancer should not only focus on classical cancer drivers but also address systemic homeostasis-related genetic mechanisms. Identification of systemic homeostasis-related genes with diagnostic, prognostic or therapeutic value can advance translational cancer research. Increasing numbers of research studies have reported systemic homeostasis-related genes' relevance to various types of cancer. For example, cancer cells have been shown to activate a critical mechanism of oxygen homeostasis—hypoxia inducible factors (HIFs) family genes, in order to adapt to the tumor microenvironment and develop into a more aggressive phenotype. In addition, methylene tetrahydrofolate dehydrogenase (MTHFD) family genes are involved in mitochondrial one-carbon metabolism, which is essential for maintaining systemic metabolic homeostasis, and have recently been found overexpressed in many cancers and have been correlated to poor survival outcomes. The overexpression of transferrin family genes with iron transporting function has been linked with iron accumulation, which is a known initiating factor in cancer. Another example is Forkhead box O (FOXO) family genes, which serve as a critical regulator of immune homeostasis and can regulate cancer immunity by negatively regulating the expression of immunosuppressive gene-programmed death 1 ligand 1 (PD-L1). Apart from these examples, other systemic homeostatic mechanisms such as glucose homeostasis, energy homeostasis, lipid homeostasis, phosphate homeostasis, cholesterol homeostasis, and mineral homeostasis may also be implicated in cancer pathogenesis. Although accruing research is focused on describing systemic homeostatic mechanisms in cancer biology, several research questions remain unaddressed. The utilization of recent analytic tools and bioinformatics as systems biology approaches has the potential to address these research gaps. Therefore, in this special issue we will collect articles focusing on the application of bioinformatics and systems biology based investigations of systemic homeostatic mechanisms in malignant diseases. Both original research and review articles are welcomed, however publications based on the analysis on only one database will not be accepted (e.g. TCGA).

**society of neuro oncology 2022: Practical Approach to the Neurological Patient - E-BOOK** William J. Mullally, 2024-07-25 To the non-neurologist, neurology can be one of the most intimidating fields of medicine, yet it includes many common problems faced in everyday primary care practice. Written specifically for the general clinician, Practical Approach to the Neurological Patient: A Clinician's Guide provides clear, up-to-date, and easy-to-understand guidance on commonly encountered issues, helping you take an informed approach to patients with neurological concerns. Dr. William J. Mullally and a team of expert contributing authors address headache, dizziness, stroke, pain, head trauma, and much more, making this volume an indispensable resource for primary care practitioners, internists, family practitioners, medical specialists, medical residents, nurse practitioners, physician associates, and students. - Offers concise, comprehensive content designed to help guide the primary care provider or non-neurologist on how to manage patients with common neurological conditions - Covers timely topics such as women's neurology, neurogenetics, pain neurology, sleep disorders, dementia, and headache (including facial pain) - Includes Key Points in every chapter, MRI images that show brain lesions, figures and tables throughout, and clinical algorithms to support everyday decision making - Features multidisciplinary input from physician authors who are contributors to the American Journal of Medicine, as well as a nurse practitioner and physician associates

**society of neuro oncology 2022: Treatment of Cancer** Pat Price, Karol Sikora, 2025-03-28

This successful text is a comprehensive guide to modern cancer treatments that aims to give clinician and student alike the framework for an integrated approach to patient care, including radiotherapy, chemotherapy, and surgery. Information is presented in tables and charts for easy assimilation, and clear algorithms for patient pathways are included to make decisions straightforward while allowing for sound clinical judgement.

**society of neuro oncology 2022: Cancer Chemotherapy, Immunotherapy, and Biotherapy**

Bruce A. Chabner, Dan L. Longo, 2024-06-18 Focusing on individual patient needs, *Cancer Chemotherapy, Immunotherapy and Biotherapy: Principles and Practice*, Seventh Edition, provides thorough, comprehensive information from Drs. Bruce A. Chabner, Dan L. Longo, and an authoritative team of clinicians and scientists working at renowned cancer centers across the globe. It covers fundamental information about mechanism of action, pharmacokinetics, clinical toxicity, and drug interactions, all essential to the safe and effective use of the drug.

**society of neuro oncology 2022: Advances in CNS Tumors Treatment and Diagnosis:**

**Obstacles, Challenges, and Opportunities** Sheng Zhong, Peichen Pan, Ye Cheng, Wei Wang, 2024-03-26 Central nervous system (CNS) tumors are the eighth leading cause of cancer death and the second most common childhood cancer worldwide. Current treatment methods include surgery, radiation therapy, chemotherapy, targeted therapy, immune therapy etc. However, patients with CNS tumors usually have an unsatisfactory prognosis accompanied by impaired neurologic functions when compared with other cancers. Few drugs or treatments have been proven effective in CNS tumors due to the presence of blood-brain barriers and its distinctive tumor microenvironment.

**society of neuro oncology 2022: Integrating Health-Related Quality of Life in**

**Neuro-Oncology** Maria Teresa Pedro, Peter Hau, Carolin Weiss Lucas, Christine Jungk, Martina Messing-Jünger, 2025-04-25 Health-Related Quality of Life (HRQoL) in neuro-oncological patients is a complex and multifaceted area of study that intersects medicine and health. It is influenced by a range of factors, including physical, emotional, and cognitive aspects. Despite the growing interest in this field, driven by the concept of precision medicine, the integration of HRQoL principles into everyday clinical decision-making remains a challenge. This is particularly true in the context of neuro-oncological diseases and other life-changing neurological impairments. The need for a paradigm shift in clinical practice is evident, as the current approach often overlooks the importance of maintaining patients' general well-being, as emphasized in the revised Geneva Declaration of 2017. The primary objective of this research topic is to provide an integrative, up-to-date overview of HRQoL in adult and pediatric patients with neuro-oncological diseases. This includes diseases affecting both the central and peripheral nervous system. The research aims to shed light on the significant impact of diagnosis, prognosis, and potential toxicity of therapies on patients' HRQoL and daily-living activities. It also seeks to explore the uneven integration of advances in radiation oncology, immuno- and chemotherapy, advanced neuroimaging, and neuromodulation into clinical practice. The research will focus on the specific challenges of HRQoL in neuro-oncological populations, which have often been marginalized within the broader context of cancer.

**society of neuro oncology 2022: Core Curriculum for Oncology Nursing - E-Book** Oncology

Nursing Society, Jeannine M. Brant, Diane G. Cope, Marlon Garzo Saría, 2023-06-30 - NEW! Updated content throughout reflects the 2022 OCN® Examination blueprint, along with the latest national and international guidelines and the most current research evidence. - NEW! A Myelofibrosis chapter is added to address this important cancer type, and a Social Determinants of Health and Financial Toxicity chapter addresses the cost of cancer treatment and financial burden of cancer treatment on patients and families. - NEW! COVID-19-related content reflects the impact of the ongoing pandemic, including differential diagnoses for pulmonary symptoms and the impact of delayed cancer diagnosis and treatment. - NEW! Updated emphases mirror those of the American Association of Colleges of Nursing 2021 Essentials as well as the recommendations of the 2020-2030 Future of Nursing report.

**society of neuro oncology 2022: The Impact of Culture and Faith in Dementia Care** Michael

Silbermann, Ann Berger, 2023-10-05 This book provides the reader with a deeper understanding of the symptoms and palliative care needs of patients with dementia and their families. The book addresses the unique role of different cultures throughout the world and how this impacts psycho-social-spiritual healing. By looking at how patients with dementia are cared for in low-, middle-, and high-income countries, we can not only learn about cultures globally but learn from one another about unique and special models of care. Our hope is that by learning from different cultures, care for patients with dementia and their families will improve on a global scale. The book will be very useful for anyone involved in care for patients with dementia and their families, including neurologists, primary care physicians, psychiatrists, and physiotherapists, nurses, nurse practitioners, psychologists, spiritual ministry, social workers and volunteers.

**society of neuro oncology 2022: Neuro-immune interaction in CNS injury and disease**

Bo Li, Guangzhi Ning, Ruiping Wang, 2023-07-24

**society of neuro oncology 2022: Updates on current protocols for the management of brain and spine malignancies** Antonino Raco, Giuseppe Barbagallo, Luca Ricciardi, Tamara Ius, Claudius Thome, 2023-01-18

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